

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|-------|---|---|------------------|---------|------------------|
| S1 | 8 | US-5117441-\$.DID. OR US-5251233-\$.DID. OR US-4583048-\$.DID. OR US-5778022-\$.DID. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 08:55 |
| S2 | 4 | US-5117441-\$.DID. OR US-5251233-\$.DID. OR US-4583048-\$.DID. OR US-5778022-\$.DID. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/11/28 10:08 |
| S3 | 0 | wo-199724819-\$.did. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 09:46 |
| S4 | 2 | wo-9724819-\$.did. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 16:13 |
| S5 | 2 | ("6768713").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/11/28 10:54 |
| S6 | 12444 | (375/147 or 375/148 or 375/149 or 375/150 or 375/152 or 375/354 or 327/141 or 370/503 or 370/509).ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 10:56 |
| S7 | 545 | (training near3 (sequenc\$3 or bit\$3 or signal or symbol)) same ((timing or clock\$3) near4 (track\$3 or recover\$3 or synchroniz\$3)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 14:33 |
| S8 | 7285 | correlat\$3 and quantiz\$3 and scal\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 11:08 |

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|-----|--------|---|---|----|----|------------------|
| S9 | 50 | S7 and S8 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 11:21 |
| S10 | 100855 | (joint\$3 or together) and complex and map\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 11:10 |
| S11 | 44 | S9 and S10 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 11:10 |
| S12 | 158055 | (detect\$3 or alert\$3) and threshold and maximum and (compar\$3 or similarit\$3 or differenc\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 11:26 |
| S13 | 42 | S11 and S12 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 11:24 |
| S14 | 20801 | ((comput\$3 or determin\$3 or calculat\$3 or estimat\$3) near3 (tim\$3 or synchroniz\$3)) same (correlat\$3 or convolution or convolv\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 11:17 |
| S15 | 8 | US-5117441-\$.DID. OR US-5251233-\$.DID. OR US-4583048-\$.DID. OR US-5778022-\$.DID. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 16:03 |
| S16 | 1 | S15 and S14 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 11:19 |

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| S17 | 2 | S14 and S13 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 11:21 |
| S18 | 4856 | S14 and S12 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 11:24 |
| S19 | 153 | S8 and S10 and S18 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 11:25 |
| S20 | 2010 | (detect\$3 or alert\$3) and (threshold same (maximum near3 power)) and (compar\$3 or similarit\$3 or differenc\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 11:27 |
| S21 | 24 | S8 and S10 and S20 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 11:45 |
| S22 | 3429 | (375/354).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/11/28 11:46 |
| S23 | 2212 | (375/355 or 375/362).ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 11:47 |
| S24 | 22 | S7 and S23 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 14:33 |

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| S25 | 3 | ("4656648" "4669095" "5048058").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/11/28 14:10 |
| S26 | 0 | (training near3 (sequenc\$3 or bit\$3 or signal or symbol)) same ((timing or clock\$3) near4 (track\$3 or recover\$3 or synchroniz\$3)) same (quantiz\$3 near3 (together or jointly or joint\$3)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 14:35 |
| S27 | 0 | (training near3 (sequenc\$3 or bit\$3 or signal or symbol)) same ((timing or clock\$3) near4 (track\$3 or recover\$3 or synchroniz\$3)) and (quantiz\$3 near3 (together or jointly or joint\$3)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 14:36 |
| S28 | 4 | (training near3 (sequenc\$3 or bit\$3 or signal or symbol)) same (quantiz\$3 near3 (together or jointly or joint\$3)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 14:38 |
| S29 | 43 | (training near3 (sequenc\$3 or bit\$3 or signal or symbol)) and (quantiz\$3 near3 (together or jointly or joint\$3)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 15:05 |
| S30 | 39 | (training near3 (sequenc\$3 or bit\$3 or signal or symbol)) and (quantiz\$3 near3 (together or jointly or joint\$3)) and (timing or tim\$3 or synchroniz\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 15:07 |
| S31 | 43 | ((training or pilot) near3 (sequenc\$3 or bit\$3 or signal or symbol)) and (quantiz\$3 near3 (together or jointly or joint\$3)) and (timing or tim\$3 or synchroniz\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 15:43 |
| S32 | 2 | ((training or pilot) near3 (sequenc\$3 or bit\$3 or signal or symbol)) same (quantiz\$3 near3 (together or jointly or joint\$3)) same (timing or tim\$3 or synchroniz\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 15:08 |

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| S33 | 27 | ((train\$5 or pilot) near3 (sequenc\$3 or bit\$3 or signal or symbol)) and (quantiz\$5 near3 (together or jointly or joint\$3)) and (timing or tim\$3 or synchroniz\$3) and (complex or (imaginary and real)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 16:00 |
| S34 | 27 | ((train\$5 or pilot or negotiat\$3) near3 (sequenc\$3 or bit\$3 or signal or symbol)) and (quantiz\$5 near3 (together or jointly or joint\$3)) and (timing or tim\$3 or synchroniz\$3) and (complex or (imaginary and real)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 16:54 |
| S35 | 2 | ("6144709").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/11/28 16:14 |
| S36 | 5 | ("5228057" "5373507" "5838672" "5912932" "5917856").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/11/28 16:14 |
| S37 | 4 | ("4873683" "5090028" "5228057" "5241545").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/11/28 16:53 |
| S38 | 27 | ((((train\$5 or pilot or negotiat\$3) near3 (sequenc\$3 or bit\$3 or signal or symbol)) or (unprocess\$3 near3 (tap near3 matched adj filter)))and (quantiz\$5 near3 (together or jointly or joint\$3)) and (timing or tim\$3 or synchroniz\$3) and (complex or (imaginary and real)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 17:00 |
| S39 | 283 | ((((train\$5 or pilot or negotiat\$3) near3 (sequenc\$3 or bit\$3 or signal or symbol)) or (unprocess\$3 near3 (tap near3 matched adj filter)))and (quantiz\$5 near3 (together or jointly or joint\$3 or vector\$3)) and (timing or tim\$3 or synchroniz\$3) and (complex or (imaginary and real)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 17:21 |

EAST Search History

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| S40 | 99 | ((train\$5 or pilot or negotiat\$3) near3 (sequenc\$3 or bit\$3 or signal or symbol)) or (unprocess\$3 near3 (tap near3 matched adj filter))) same (quantiz\$5 near3 (together or jointly or joint\$3 or vector\$3)) and (timing or tim\$3 or synchroniz\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 17:30 |
| S41 | 8 | ("4112370" "4731801" "4829543" "4885757" "5031193" "5081651" "5091918" "5164959").PN. | US-PGPUB; USPAT; USOCR | OR | ON | 2006/11/28 17:41 |
| S42 | 185 | (training near3 (sequence or signal or bit or symbol)) same ((quantiz\$5 near3 (vector)) or ((scaling or scale) near3 (factor or value))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 17:49 |
| S43 | 8958202 | (timing or tim\$3 or synchronization or synchroniz\$3 or synchronized) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 17:05 |
| S44 | 59 | S42 same S43 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 17:46 |
| S45 | 342 | ((training or pilot) near3 (sequence or signal or bit or symbol)) same ((quantiz\$5 near3 (vector)) or ((scaling or scale) near3 (factor or value))) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 17:49 |
| S46 | 103 | S45 same S43 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/28 17:50 |
| S47 | 1908 | (training near3 (sequenc\$3 or bit or signal or symbol)) same (scal\$3 or scaling or adjust\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/29 07:39 |

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| S48 | 8 | US-5117441-\$.DID. OR US-5251233-\$.DID. OR US-4583048-\$.DID. OR US-5778022-\$.DID. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/29 07:39 |
| S49 | 12444 | (375/147 or 375/148 or 375/149 or 375/150 or 375/152 or 375/354 or 327/141 or 370/503 or 370/509).ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 17:07 |
| S50 | 89 | (S48 or S49) and S47 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/29 10:41 |
| S51 | 1081 | ((var\$3 or vary or varies or adjust\$3) near3 (scale or scaling)) same (map\$3 or quantized or quantization) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/29 10:47 |
| S52 | 4 | (S48 or S49) and S51 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/29 10:47 |
| S53 | 407 | ((var\$3 or vary or varies or adjust\$3) near3 (scale or scaling)) same (map\$3 or quantized or quantization) and (timing or synchroniz\$5 or clock\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/29 10:50 |
| S54 | 3 | (S48 or S49) and S53 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/29 10:48 |
| S55 | 11 | ((var\$3 or vary or varies or adjust\$3) near3 (scale or scaling)) same (map\$3 or quantized or quantization) and (timing or synchroniz\$5 or clock\$3) and ((training or pilot) near3 (sequence or symbol or bit)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2006/11/29 11:50 |

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|-----|---------|--|---|----|-----|------------------|
| S56 | 6 | ((FABIAN) near2 (WENGER)).INV. | US-PGPUB; USPAT | OR | ON | 2006/11/29 11:50 |
| S57 | 3 | ((FABIAN) near2 (WENGER)).INV. | EPO; JPO; DERWENT | OR | ON | 2006/11/29 11:52 |
| S58 | 6 | ((UWE) near2 (DETTMAR)).INV. | US-PGPUB; USPAT | OR | ON | 2006/11/29 11:54 |
| S59 | 8 | ((UWE) near2 (DETTMAR)).INV. | EPO; JPO; DERWENT | OR | ON | 2006/11/29 11:55 |
| S60 | 16 | ((UDO) near2 (WACHSMANN)). INV. | US-PGPUB; USPAT | OR | ON | 2006/11/29 11:56 |
| S61 | 14 | ((UDO) near2 (WACHSMANN)). INV. | EPO; JPO; DERWENT | OR | ON | 2006/11/29 12:01 |
| S62 | 51 | ((PETER) near2 (SCHRAMM)).INV. | US-PGPUB; USPAT | OR | ON | 2006/11/29 12:02 |
| S63 | 56 | ((PETER) near2 (SCHRAMM)).INV. | EPO; JPO; DERWENT | OR | ON | 2006/11/29 12:11 |
| S64 | 2 | ("6144709").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/12/13 09:42 |
| S65 | 11 | ("5117441").URPN. | USPAT | OR | ON | 2007/04/23 16:59 |
| S66 | 306576 | ("μ-law") or ("a-law") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 17:04 |
| S67 | 306576 | ("μ-law") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 17:04 |
| S68 | 9184246 | (timing or tim\$3 or synchronization or synchroniz\$3 or synchronized) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 17:05 |
| S69 | 238958 | S68 and S67 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 17:06 |

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|-----|-------|--|---|----|----|------------------|
| S70 | 48384 | S68 same S67 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 17:06 |
| S71 | 12861 | (375/147 or 375/148 or 375/149 or 375/150 or 375/152 or 375/354 or 327/141 or 370/503 or 370/509).ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 17:07 |
| S72 | 115 | S71 and S70 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 17:08 |
| S73 | 4463 | (375/354 or 375/355).ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 17:08 |
| S74 | 33 | S70 and S73 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2007/04/23 17:24 |